

RF AMPLIFIER

MODEL TM9518

Available as: TN9518, 4 Pin Surface Mount (SM3)
BX9518 Connectorized Housing (HI)

Features

- Medium Gain: +16 dB Typical
- Operating Temp. - 55 °C to +85 °C

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 1000 MHz	10 - 1000 MHz
Gain (dB)	14.7	13.5 Min.
Power @ 1 dB Comp. (dBm)	+16	+14.5 Min.
Reverse Isolation (dB)	- 18.5	- 17 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise figure (dB)	4.0	5.5 Max.
Power Vdc	+15	+15
mA	44	50 Max.

Note: Care should always be taken to effectively ground the case of each unit.

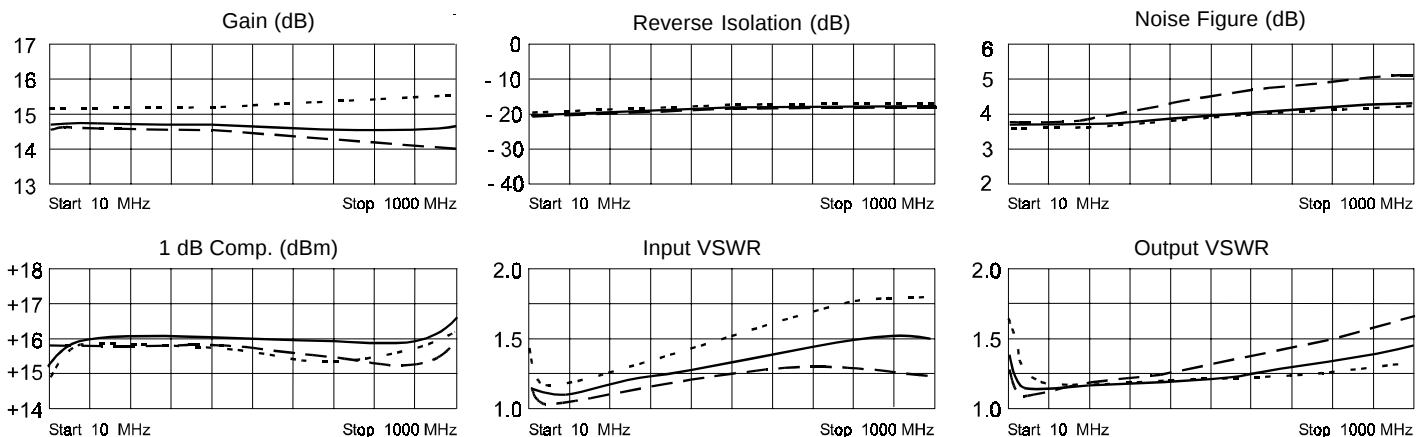
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +47(Typ.)
Second Order Two Tone Intercept Point +41(Typ.)
Third Order Two Tone Intercept Point +29(Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
Storage Temperature -62°C to + 125 °C
Case Temperature + 125 °C
DC Voltage + 18 Volts
Continuous RF Input Power + 20 dBm
Short Term RF Input Power 200 Milliwatts
(1 Minute Max.)
Maximum Peak Power 0.5 Watt
3 μsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C -55 °C

Linear S-Parameters									
FREQ.	S11		S21		S12		S22		
MHz	Mag.	Deg.	Mag.	Deg.	Mag.	Deg.	Mag.	Deg.	
10	.17	-160	5.20	-176	.11	8	.17	163	
50	.17	-174	5.27	-171	.12	-2	.17	166	
100	.16	160	5.25	161	.12	-6	.16	163	
200	.14	134	5.24	141	.12	-12	.14	150	
400	.09	51	5.25	102	.13	-26	.08	131	
600	.15	-50	5.27	60	.13	-45	.08	-108	
800	.23	-107	5.21	15	.14	-65	.16	-137	
1000	.10	-171	5.11	-37	.14	-87	.15	-177	

Amplifonix

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